

BASUKINSKIY, I.H., insh.

Effect of the turning of the rotor on the results of measurements of gaps in the blading of a turbine. Isv.vys.ucheb.
sav.; energ. 3 no.5:164-166 W '60. (MIRA 13:6)

1. Vsesoyusnyy teplotekhnicheskiy institut. (Steam turbines)

BASUKINSKIY, I.N., inzh.; TERNOGIN, A.G., inzh.; EEKKER, B.Ia., inzh.

Evaluation of the operational efficiency of turbo feed pumps.
Elek. stat. 35 no.1:19-24 Ja '64. (MIRA 17:6)

GHOSE, T. K.; BASU, S. K.

Bacterial sulfide production from sulfate enriched distillery liquor I. Folia microbiol 6 no.5:335-341 161.

1. Fermentation Laboratory, Food Technology Division, Jadavpur University, Calcutta 32, India

(SULFIDES)

BASU, S. L.; MONDAL, A.

The normal spermatogenetic cycle of the common Indiab frog, Rana tigrina Daud; Folia biologica 9 no.2:135-142 '61.

1. G. C. Bose Biological Research Unit, Bangabasi College, 19 Scott Lane, Calcutta, India.

BASULLA, Hortensia

Varnishes based on nonsaturated polyester resins. Rev chimie Min petr 15 no. 3: 133-138 Mr 164.

BASURMANOV, K.

Activity of leading organizations grows. Zhil.-kom. khoz. 11 no.8:31 Ag 61. (MIRA 14:9)

1. Predsedatel Moskovskogo pravleniya Nauchno-tekhnicheskogo obshchestva gorodskogo khozyayatva i avtomobil nogo transporta.

(Municipal services)

BASURMANOV, K., insh.

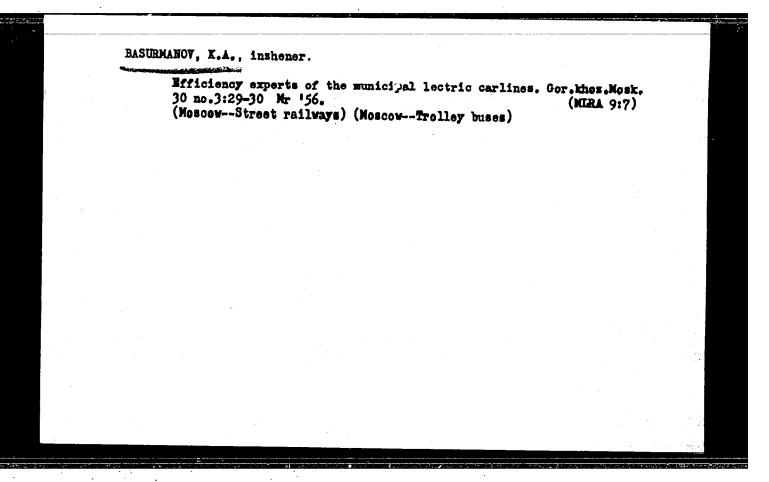
Make vider use of electronic computing techniques. Zhil.-komm. khoz. 13 no.2:15-16 *63. (MIRA 16:3) (Electronic computers) (Municipal services)

BASURMANOV, K.A.

On the introduction of new technology in electric surface transportation systems. Gor.khoz.Mosk.29 no.9:9-13 S '55. (MIRA 8:12)

1. Glavnyy inzhener Tramvayno-trolleybusnogo upravleniya (Moscow--Trolley buses)

BASURMANOV, K.A. Rfficiency experts in the municipal electric transport system of Moscow. Zhil.-kom. khoz. 6 no.6:12-15 '56. (MEMA 9:12) 1. Glavnyy inshener Transvayno-trolleybusnogo upravleniya Mosgorispolkoma. (Noscow—Street railways) (Trolley buses)



BASURHANOV, K. A

Eliminating ripple wear of electric railroad rails. Zhil.-kom. khoz. 7 no.1:13-15 '57. (MLRA 10:4)

1. Glavnyy inzhener Tramvayno-trolleybusnogo upravleniya Mosgorispolkoma. (Street railways--Rails)

Efficiency promoters of the electric transport system in the capital.

Zhil.-kom. khos. 8 no.3:15-18 '58. (MIRA 11:4)

(Moscow—Trolley buses)

BASURMANOV, K.A.

Decreasing the expenditure of labor at the enterprises of the Streetcar and Trolley Bus Administration. Gor. khos. Mosk. 32 no.8:21-24 Ag 158. (MIRA 11:9)

1. Glavnyy inshener Tramvayno-trolleybusnogo upravleniya Mosgorispolkoma.

(Moscow--Streetcars--Maintenance and repair)
(Moscow--Trolley buses--Maintenance and repair)

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203920005-0

BASURMANOV, K.A. insh.

Scientific and technical societies at the municipal economy enterprises. Gor. khoz. Mosk. 32 no.1:33-34 Ja 158. (MIRA 11:1)

1. Predsedntel' Moskovskogo pravleniya Nauchno-tekhnicheskogo obshchestva sanitarnoy tekhniki i gorodskogo khozyaystva. (Moscow---Technical education)

8(0) AUTHORS: SOV/105-59-5-25/29

Basurmanov, K. A., Engineer, Galonen, Yu. M., Candidate of Technical Sciences, Yefremov, I. S., Professor, Doctor of Technical Sciences, Ivanov, I. T., Candidate of Technical

Sciences

TITLE:

V. G. Sosyants

PERIODICAL:

Elektriohestvo, 1959, Nr 5, p 92 (USSR)

ABSTRACT:

A short curriculum vitae on the occasion of his 70th birthday. Born on November 27, 1888 in Tiflis. Entered the Moskovskiy tramvay (Moscow Streetcar Service) in 1908, studied at the same time and finished his studies at the Polytechnic Institute in 1916. He worked in the Moscow Streetcar Service until 1930 in the finally became chief engineer. From 1931-37 he worked in the system of the Narodnyy komissariat kommunal nogo khozyaystva RSFSR, (People's Commissariat for Municipal Economy of the RSFSR) and in the Vsesoyuznyy sovet kommunal nogo khozyaystva pri TsIK SSSR (All-Union Sovet of the Municipal Economy at the TsIK of the USSR). From 1937 he has been conducting the Sector of Municipal Transport at the Akademiya kommunal nogo khozyaystva im. Pamfilova (Academy of Municipal Economy imeni Pamfilov). Besides, he is working as a pedagogue.

Card 1/3

V. G. Sosyants

SOV/105-59-5-25/29

He started his activity as a pedagogue in 1929 at the Institut narodnogo khozyaystva im. Plekhanova (Institute of Political Economy imeni Plekhanov) where he organized and gave lectures. on municipal electric transportation. Later on he also worked at the Moskovskiy energeticheskiy institut (Moscow Power Engineering Institute) and other institutes. He published a number of scientific papers, text books, and manuals. In 1923 he organized the 1st All-Region Streetcar Conference. He was a member of the Presidim of the Postoyannoye byuro vsesoyuznykh tramvaynykh s"yezdov (Permanent Office of the All-Union Streetcar Congresses), of the Vsesoyuznoye nauchnoye inzhenernotekhnicheskow obshchestvo gorodskogo transporta (All-Union Scientific Technical Society of Municipal Transportation). Since 1954 he has been Deputy President of the Central Executive Committee of the Nauchno-tekhnicheskoye obshchestvo sanitarnoy. tekhniki i gorodskogo khozyaystva. (Scientific-technical Society of Sanitary Engineering and Municipal Economy). At the same time, he is Deputy President of the Section of Transportation of the Moskovskoye gorodskoye otdeleniye Vsesoyuznogo obshchestva po rasprostraneniyu politicheskikh i nauchnykh znaniy... (Moscow Municipal Department of the All-Union Society for the Propagation of Political and Scientific Education), as well as a member of the Commission for the Reorganization of Municipal Trans-

Card 2/3

V. G. Sosyants

sov/105-59-5-25/29

portation at the Mosgorispolkom, of the Tekhnicheskiy sovet Ministerstva kommunal nogo khozyaystva RSFSR (Technical Council of the Ministry of Municipal Economy of the RSFSR), of the Uchenyy sovet Akademii kommunal nogo khozyaystva (Scientific Council of the Academy of Municipal Economy) and of the Tekhnicheskiy sovet Mosgorispolkom (Technical Council of the Mosgorispolkom). He bears the Badge of Honor and various medals. There is 1 figure.

Card 3/3

BASURMANOV, K.A.

New trolley buses, buses, and streetcars for the capital. Gor.khos.
Mosk. 33 no.2:26 J 59. (MIRA 12:3)

1. Glavnyy insh. Upravleniya passashirskogo transporta Mosgorispolkoma.

(Moscow-Local transit)

BASURMANOV, K.

Saving electric power in the municipal transportation system of Moscow. Zhil.-kom. khoz. 10 no.5:13-14 160. (MIRA 13:10)

1. Glavnyy inshener Upravleniya passazhirskogo transporta Mosgorispolkoma, Moskva. (Electric power) (Noscow-Street railways)

BASURMANOV, K.A.

Concord of scientists, engineers, and workers in the struggle for technical progress in the municipal economy. Gor.khoz.

Mosk. 34 no.1:23-24 Ja '60. (MIRA 13:5)

(Moscow--Municipal services)

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203920005-0

Basta MIOV, K.

Ways of economizing on nonferrous metals in the municipal electric transportation system. Zhil.-kom. khoz. 11 no. 1:16-17 '51. (MIM 14:2)

1. di vnyy iminener Upravloniya passazhirskogo transporta Mosky,

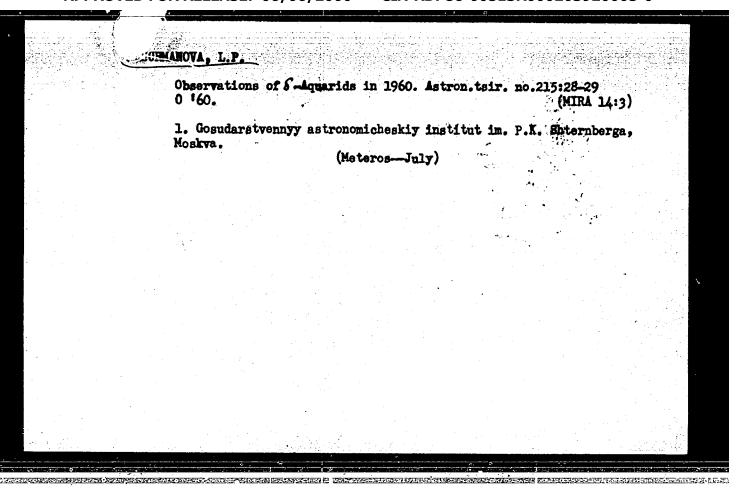
(Nonferrous metals) (Moscow--Street railways)

BASURMANOVA, L. (Moskva); KABAYEVA, N. (Moskva)

Observations of lunar occultation of < Tauri. Astron.tsir. no.222:27-28 My '61. (MIRA 15:4)

1. Gosudarstvennyy astronomicheskiy institut im. Shternberga, Moskva. (Occultations)

Expedition to Simferopol' for meteor observations in August 1959. Astron.tsir. no.210:28-29 Ap '60. (MIRA 13:9) 1. Meteornyy otdel Moskovskogo otdeleniya Vsesoyuznogo astronomogeodexicheskogo obshchestva. (Neteors--August)



BASURMANOVA, L.P.

Determining temperature coefficient and the distances between horizontal lines on the glass plate of the ocular micrometer of the Moscow zenith telescope. Soob, GAISH no.134:37-39 *64. (MIRA 17:8)

BASURMANOVA, L.P.

Observations of Perseids in 1961. Astron. tsir. no.228:26-28 Ap '62. (MIRA 16:6)

1. Mateornyy otdel Moskovskogo otdeleniya Vsesoyuznogo astronomo-geodezicheskogo obshchestva.
(Meteors-August)

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203920005-0

BASURLIANOVA. C.K., Cand Bio Sci — (diss) "Entomofauna of maple trees in the steppe rations and the ecology of the most important varieties."

Mos, Fublishing House of the Acad Sci USSR, 1958 18 pp (Acad Sci USSR, Institute of Foresta) 120 copies (KL, 24-58, 117)

-25-

USSR/General and Systematic Zoology. Insects. Harmful

Inscots and Acarids. Forest Pests.

Abs Jour : Ref Zhur - Biol., No 3, 1959, No 11687

: Basurnanova O.K. Author

: Forest Institute AS SSSR.

: Certain Regularities of the Distribution of Inst Titlo

Agrilus basurmanovao Stop. in Dorkul' Field-

Protecting Bolts.

Orig Pub: Soobshch. In-ta lesa. AN SSSR, 1958, vyp. 10, 76-82.

Abstract : The sinuate borer A. basurmanovae in the Derkul'

field-protecting belts damage en masse the Norway, field and Tatar maples. It populates slightly weakened trees, particularly those, well illuminated and warmed up; the percentage of trees infested by the borer in the southern woods is always higher than in the northern woods. The woods

: 1/3 Card

USSR/General and Systematic Zoology. Insects. Harmful Insects and Acarids. Forest Pests.

P.

Abs Jour : Ref Zhur - Biol., No 3, 1959, No 11687

trees were applied effectively. -- V.I. Grimal'-

Card : 3/3

BASURMANOVA, O.K.

Biolgical forms of the buprestid beetle Agrilus viridis.

Zool. zhur. 37 no.7:1039-1044 Jl 158. (MIRA 11:8)

1. Institut Lesa Akademii nauk SSSR, Moskva.
(Borers (Insects))

BASURMANOVA, O.K.

Some properties of the fine structure of the conducting elements in the head ganglion of insects. Biofizika 8 no.1: 132-134 '63. (MIRA 17:8)

1. Institut biologicheskoy fiziki AN SSSR, Muskva.

Pa-li/Pb-li AFWL/SSD/AS(mp)-2/AMD/AFTC(b)
API:01:21:80 S/0217/64/009/004/0508/0515 L 15322-65 ACCESSION NR: AP4042480

AUTHOR: Gamburtseva, A. C.; Glagoleva, V. V.; Basurmanova, O. K.

TITLE: Mitochondrion ultrastructure changes of various tissues under the influence of certain effects

SOURCE: Biofizika, v. 9, no. 4, 1964, 508-515

TOPIC TAGS: cell cytoplasm, mitochondrion, ultrastructure change, rat, white mouse, cricket, functional shift effect, ether, fatigue, flashing light, electron microscope

ABSTRACT: To determine whether the ultrastructure of mitochondria is affected by body functional changes, fatty tissues of young rats under ether, sartorius muscles of fatigued white mice, and eye ganglia of crickets with a light flashing on the retina were investigated and preliminary results are reported. Tissues were fixed in a 1% 080 proliminary results are reported. Tissues were fixed in a 1% 080 proliminary results are reported. Tissues were fixed in a 1% 080 proliminary of a veronal-acetate buffer (pH 7.4) at a temperature of approximately 0°C, and the fixing time varied from 1.5 to 4 hrs depending on tissue type. The dehydrated tissues were then covered with a methyl- and butyl-methacrylate mixture (1:4) and polymerized in a thermostar at 450C. Witrathin sections were cut with a LKV Cord 1/2

L 15322-65 ACCESSION NR: AP4042480

ultratome, stained, and examined with a UEM-100 electron microscope. Three types of mitochondrion ultrastructure changes were found: formation of large vacuoles markedly separated from the rest of the mitochondria, formation of membrane agglomerates, and formation of osmiophil granules. All of these changes were the result of reversible vital functional shifts produced by external factors. Whether all three types of mitochondrion ultrastructure change are different stages of the same process or are specific for each case is difficult to determine at this time. The investigation data confirm literature studies which indicate that mitochondria are the first to react to various chemical, physical, and functional influences by changing their organizational structure. Orig. art. has: 9 figures.

ASSOCIATION: Institut biologicheskoy fiziki AN SSSR, Moscow (Biological Physics Institute, AN SSSR)

SUBMITTED: OhApr64

ENCL: 00

SUB CODE: LS

NR REF SOV: 001

OTHER: 010

Card 2/2

GAMBURTSEVA, A.G.; GLAGOLEVA, V.V.; BASURMANOVA, O.K.

Changes in the ultrastructure of mitochondria from various tissues under the influence of some agents. Biofizika 9 no.4:508-514 64. (MIRA 18:3)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.

EL'PINER, I.Ye.; FAYKIN, I.M.; BASURMANOVA, O.K.

Intracellular microcurrents caused by ultrasonic waves. Biofizika
10 no.5:805-812 '65. (MIRA 18:10)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.

	L 41645-66 ENT(1) SCTB DD SOURCE CODE: UR/0217/66/011/002/0263/0266
Aitheand	AUTHOR: Basurmanova, 0. K.
A CONTRACTOR	ORG: Institute of Biological Physics, AN SSSR, Moscow (Institut biologicheskoy fiziki AN SSSR)
Salar Page 1	TITE: Ultrastructural changes in the synaptic region of the first visual ganglion of insects in various functional states
	SOURCE: Biofizika, v. 11, no. 2, 1966, 263-266
natural of the state of the sta	TOPIC TAGS: entomology, vision, eye, neuron, neurology, microscope, microtome, light biologic effect/UKV microtome, UEM-100 microscope, UEM-V microscope ABSTRACT: The article presents data on ultrastructural changes found in the synaptic region of the first visual ganglion of insects when the retina was subjected to various influences. The object of investigation was the house fly Musca domestica. The object of investigation was the house fly Musca domestica. The retina, together with the first and second visual ganglia in various functional states, was fixed with a buffered solution of various functional states, was fixed with a buffered solution of warious functional states, was fixed with a buffered solution of warious functional states, was fixed with a buffered solution of warious functional states, was fixed with a buffered solution of warious functional states, was fixed with a buffered solution of warious functional states, was fixed with a buffered solution of warious functional states, was fixed with a buffered solution of warious functional states, was fixed with a buffered solution of warious functional states, was fixed with a buffered solution of warious functional states, was fixed with a buffered solution of warious functional states, was fixed with a buffered solution of warious functional states, was fixed with a buffered solution of warious functional states, was fixed with a buffered solution of warious functional states, was fixed with a buffered solution of warious functional states, was fixed with a buffered solution of warious functional states, was fixed with a buffered solution of warious functional states, was fixed with a buffered solution of warious functional states, was fixed with a buffered solution of warious functional states, was fixed with a buffered solution of warious functional states, was fixed with a buffered solution of warious functional states.
	V microscopes.
	1. Dark adaptation: Synaptic vesicles in the axons of the retinal
,	Card 1/2 09/1 2337

L 41645-66 ACC NR: AP6031117

cells disappear. Mitochondria lose their outer membrane and "dissolve" in the axoplasm. In the glial cells a small number of free ribosomes are present, and mitochondria have a normal structure.

2. Stimulation of dark-adapted retina with intermittent light: Synaptic vesicles appear in the axons of the retinal cells. The outer membrane of the mitochondria is partially restored. In some axons of the retinal cells the axoplasm thickens and membrane accumulations appear.

- 3. Stimulation with intermittent light of retina pre-exposed to natural conditions: a significant quantity of granular endoplasmic reticulum and free ribosomes appears in glial cells. In some axons of the retinal cells cristae break down within the mitochondria and vacuoles form.
- 4. Rest after stimulation of dark-adapted retina with intermittent light: in the axons of the retinal cells among partially restored mitochondria there appear formations of different kinds, including small vesicles, separate membranes, and rather large formations clothed in a double membrane with vesicles and membranes inside and resembling mitochondria in external appearance and size.

 Orig. art. has: 6 figures. [JPRS: 36,932]

SUB CODE: 06,20 / SUBM DATE: 25Mar65 / ORIG REF: 003 / OTH REF: 006

Card 2/2

BASUS, V.

Insufficient safety installations in a paper mill caused death. p. 184.

Vol. 10, no. 9, Sept. 1955 PAPIR A CELHLOSA Praha, Czechoslovakia

Source: East European Accession List. Library of Congress Vol. 5, No. 8, August 1956

BASUS, V.

Heat transfer by convection from electric radiators with trough-type reflectors. p. 11.

Ceskoslovenska vedecka technicka spolecnost pro zdravotni techniku a vzduchotechniku. SBORNIK. Praha, Czechoslovakia. No. 3, 1958.

Monthly list of East European Accessions (EEAI) LC, Vol. 8, No. 10, Oct. 1959. Uncl.

CZECHOSLOVAKIA

BASUS, Vladimir, Engr., and KCCOVA, Vera, Institute for Machinery Research (Ustav pro vyzkum stroju), Czechoslovak Academy of Sciences.

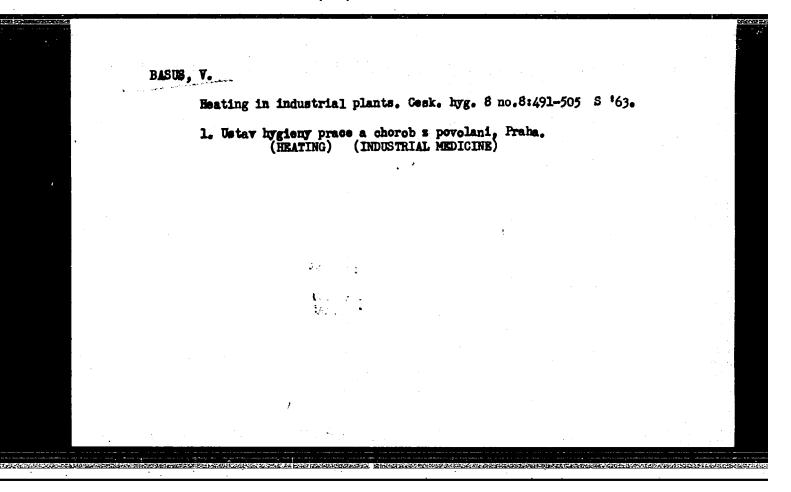
"Mutual Effect of Free Air Flows"

Prague, Zdravotni Technika a Vzduchotechnika, Vol 6, No 4, 1963, pp 150-167.

Abstract [Authors' German summary]: A theoretical solution of the mutual effect of parallel isothermic free air currents and the derivation of relations to determine the speed of a mixed air current at an arbitrary place. The theoretical solution is verified by experiments using ten different mixings of currents flowing from two to eighteen outlets. Nomographs are attached for practical use. Twelve references, including 6 Czech and 3 Czech.

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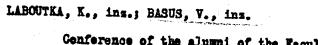
Microclimate of stables. Edravol tech 7 no. 3:132 '64.

Reletive air humidity and temperature in residential houses and offices. Ibid.:137-138

BASUS, Vladimir, inz.

Remarks on heat radiation terminology. Zdravot tech 7 no.4:172-176 '64

1. Institute of Industrial Hygiene and Occupational Diseases, Prague.



Conference of the alumni of the Faculty of Mechanical Engineering of the Czech Higher School of Technology. Zdravet tech 7 no.6:271-274 164.

1. Czech Higher School of Technology, Prague (for Laboutka). 2. Institute of Industrial Hygiene and Occupational Diseases, Prague (for Basus).

BASUS, Zdenek

Present technical standard of table porcelain production and prospects of further development. Sklar a keramik 15 no.3: 68-69 Mr 165.

1. Research Worksite of the Karlovarsky porcelan National Enterprise, Bresova.

BASUYEV, G.K.

Siberian pinery in Nishnyaya Salda. Okhr.prir.na Urale no.3:143-149 '62. (MIRA 16:6) (Nizhnyaya Salda-Pine)

OL'KHOVSKIY, I.A.; GOLOV, V.K.; BAS'YAS, I.P., redaktor; KEL'NIK, V.P., redaktor isdatel'stva; KOVALLAKO, H.I., tekhnîcheskiy redaktor.

[Advanced experience in producing cast steel products; experience of the Novo-Tagil refractory plant] Peredovoi opyt proisvodstva staleraslivochnykh isdelii; opyt novatorov N.-Tabil'skogo ogneupornogo savoda. Sverdlovsk, Gos. nauchno-tekhn. isd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1954. 59 p. (MLRA 7:11)

(Powder metallurgy)

	Basyas, I.P.								
	USSR . Elimination of invaluation in stopper rod covers by do airling the mix.—L.P. Bas'yas and M. P. Ph. Dervasses. Ogneupory, 20, 93, 1955). The do-airling of various Russian raw clays improved the plasticity, and inmination in rod-covers was decreased. The rod-covers contained 34-7% Al ₂ O ₃ +TiO ₂ , and had a P.C.E. of 1,710° C.; the porosity was 25-4%. (6 tables.)								
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Causes of meld cracks in firebrick side spenings for pouring steel castings. Ognoupery 20 me.6:281-282 '55. (MIMA 9:I) 1.Ural'skeye etdeleniye Leningradakage instituta agnoupers. (Foundry machinery and supplies)

[Technology and equipment for the production of refractory materials] Tekhnologia i oborudovanie shamotnogo proisvodstva; uchebnik dlia shkol masterov. Sverdlovsk, Gos. nauchno-tekhn. isd-vo uchebnik dlia shkol masterov. Sverdlovsk, Gos. nauchno-tekhn. isd-vo lit-ry po chernoi i tsvetnoi metallurgii, Sverdlovskoe otd-nie, (MLRA 9:7) 1956. 387 p. (Refractory materials)

BASIYAS, T	The study of diffusion processes in refractories by autora- dividently I. P. Harvas. Zarodskova Lab 27 1497-41 [1903].—The importance of diffusional processes in refrac- tories is obvious because diffusion affects the life of linking in trading proclamatics and a second of the life of linking in						
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BAS'YAS, I.P.

Name: BAS'YAS, I. P.

Dissertation: The conditions of service and processes of decompolition

of magnesite-chromite and forsterite articles in the masonry

of open-hearth furnaces (under the conditions of NIMZ)

Degree; Cand Tech Sci

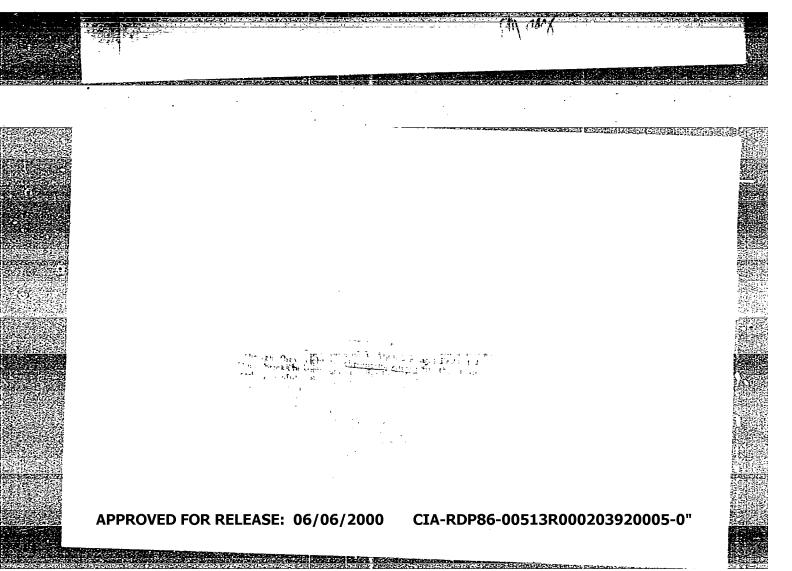
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PUCTUSA pe Date, Place: 1956, Sverdlovsk

Source: Knizhnaya Letopis', No 47, 1956



BAS'YAS, I.P.; DVORKIND, N.N.; SARKISOV, I.G.; POSTNIKOV, P.T.

Efficient choice of refractories for laying a copper smelting reverberatory furnace. Ogneupory 22 no.7:301-306 '57. (MIRA 10:8)

1. Ural skoye otdeleniye instituta ogneuporov (for Bas yas and Dvorkind). 2. Krasnoural skiy medeplavil nyy zavod (for Sarkisov and Postnikov).

(Smelting furnaces) (Refractory materials)

AUTHORS:

Bag'yas, I.P., Vyaznikova, T.A., Raychenko, T.F.

131-58-4-7/17

TITLE:

Changes Taking Place in Refractory Forsterite Products When Forming Part of the Wall Structure of a Reverbatory Copper Smelting Furnace (Izmeneniya v forsteritovykh ogneuporakh pri sluzhbe v kladke medeplavil' noy otrazhatel noy pechi)

PERIODICAL:

Ogneupory, 1958, . Nr 4, pp. 163-168 (USSR)

ABSTRACT:

Tests with Forsterite products in a copper smelting furnace were carried out in the USSR for the first time. They were bricked up in the vaults of the charge openings of the furnace and operated at temperatures of 1300-1400°. As a result of the action of temperature and smelt dust Forsterite assumed a zonal structure which is further described. The chemical composition of the worked-off Forsterite products according to zones as well as other data were published in papers by I.P. Bas yas, M.M. Dvorkind, I.G. Sarkisov and P.F. Postnikov (Ref 1). Fig. 1 shows the structure of the unchanged part of a Forsterite brick and fig. 2 shows its dark-grey zone. Fig. 3 shows the structure of the dark-grey and "spinellike" contact zone and fig. 4 shows the "spinel-like" zone. Fig.5

Card 1/2

Changes Taking Place in Refractory Forsterite Products When Forming Part of the Wall Structure of a Reverbatory Copper Smelting Furnace

131-58-4-7/17

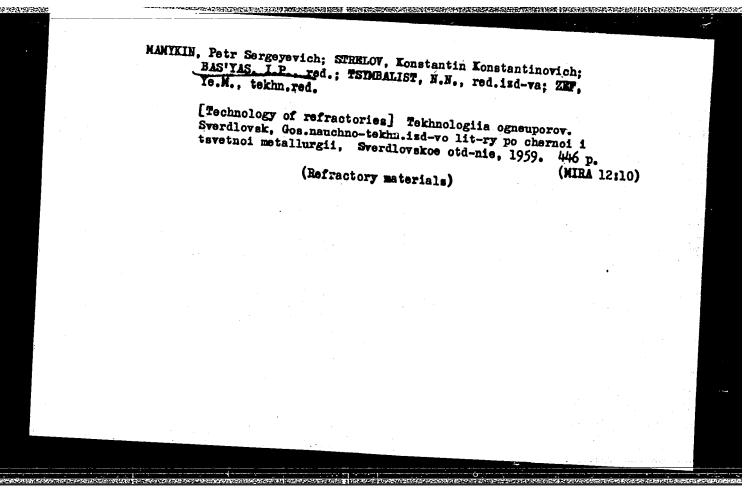
shows a Forsterite brick from the vault of a copper smelting furnace after being moistened in water and dried at 110°. As may be seen, it is considerably swollen. The influence exercised by gaseous SO₂ on Forsterite-magnesite- and magnesite-chromite products may be seen in table 1. Fig. 6 shows the thermogram of a crushed Forsterite brick which was heated in an SO₂ current. Table 2 gives the results obtained when determining SO₃-, Mg-, and Fequantities. Conclusions: 1.) Reagents of the smelting space in interaction with Forsterite bricks form a "spinel-like" zone.

2.) In the middle of the remaining length of Forsterite products, in the 700-900° zone, MgSO₄ with an absorption of 10% SO₂ is formed. 3.) In consideration of the fact that MgSO₄ is inclined to the action of water on the Forsterite brick lining. There are 6 figures, 2 tables, and 1 reference, 1 of which is Soviet.

ASSOCIATION:

Ural'skoye otdeleniye Leningradskogo instituta ogneuporov (Leningrad Institute for Refractories, Ural Branch)

Card 2/2



25(5)
AUTHORS: Bastvas, T. P., De

SOY/32-25-9-17/53

Bas'yas, I. P., Danilovich, Yu. A., Lepesa, A. N.

TITLE:

Application of Radioactive Isotopes in the Investigation of the Performance of the Bottom Surface of Martin Furnaces

PERIODICAL:

Zavodskaya laboratoriya, 1959, Vol 25, Nr 9, pp 1076-1077 (USSR)

ABSTRACT:

Investigating the reaction between the bottom surface (B) of Martin furnaces and the charge (C) with the liquid steel (S) containing iron oxides (IO) is particularly complicated. Diffusion of (IO) into (B) can, however, greatly influence the durability of (B). For the investigation of the displacement of (IO) from (C) or (S) into (B) in the case under review radio-

active Fe⁵⁹ was used being poured onto the ore in the form of a suspension of hydroxide. The active ore is put onto (B) simultaneously with the first (C) in the 185 ton Martin furnace. After (C) has melted down, samples of the slag, the metal and the (B) are taken by means of a special steel tube. The activity of the samples was investigated with a B-2 unit and AS counter.

Card 1/2

It was established that most of Fe⁵⁹ passed into the smelting and only a small part of the radioactive iron passed from the

Application of Radioactive Isotopes in the SOV/32-25-9-17/53 Investigation of the Performance of the Bottom Surface of Martin Furnaces

ore into (B). An even smaller migration from the smelting into (B) was observed. The observations made lead to the assumption that the iron of (IO) reacts most with the periolase of (B). For this reason the migration from the ore is larger than that from the smelting as there is considerably less oxygen present in the latter. Thus an increase in the oxygen content of the smelting results in greater wear on (B). There is 1 figure.

ASSOCIATION: Ural'skoye otdeleniye Instituta ogneuporov i Chelyabinskiy metallurgicheskiy zavod (Urab Department of the Institute for Refractory Materials and Chelyabinsk Metallurgical Works)

Card 2/2

AUTHORS 8

Bas'yas, I.P., Vyaznikova, T.A., Koksharov, V.D., Dikshteyn, Ye. I., Selivanov, I.A., Makaryohev, A.R., and Nazarov, K.S.

TITLE :

Optimum Working Conditions for Basic Roofs of Open-Hearth Furnaces

PERIODICAL: Stal', 1960, No. 12, pp. 1086-1092

In order to investigate the factors influencing the useful life of magnesite-chromite bricks used for open-hearth furnace roofs tests were carried out in the Magnitogorsk Metallurgical Combine (1957-1959) with furnaces fired a) with masut only, (masut type furnace"); b) with blast-furnace coke and an addition of 30 kg/hour of tar ("gas-type" furnace); c) with blast-furnace coke and an addition of 500-700 kg/hour of coal tar, ("mixedtype" furnace). The tests served to determine the temperature of the magnesite-chromite bricks at various distances from the working surface of the roof, the composition of the atmosphere under the roof, the quantity and composition of dust and the rate of the decomposition in bricks. For these purposes the following devices were employed: OM (FEP) type photoelectric pyrometer, platinum-rhodium and platinum thermocouples, mounted in a 75 x 75 x Card 1 R

Optimum Working Conditions for Basic Roofs of Open-Hearth Furnaces

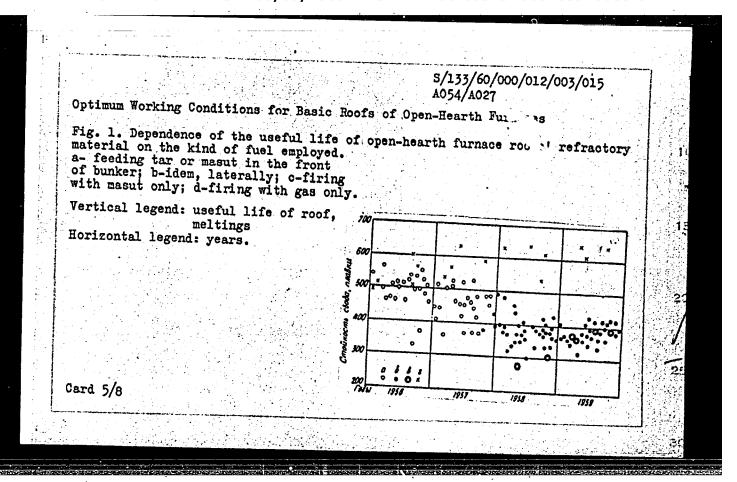
460 mm magnesite-chromite rod, the hot junctions of the thermocouples being at 0, 10, 15 and 30 mm distance from the working surface. Where the hot junction was placed immediately on the surface, it was protected by a silicium-rich cap, with a wall 0.8 mm thick; a single-point potentiometer with a disc scale rotating at 0.5 rph; for gas analysis TYN (GKhP-3) type and for random tests BTM -2 (VTI-2) type analyzers were used. The melting dust under the roof was collected by a water cocled detachable brass tube connected in series with water filters, gasemeters and ejectors. For introducing the apparatus in the under-roof area 7 openings, (80 x 80 mm) were made in the roof. In the tests the relationship between the character of temperature change of the working roof surface and the duration of break in firing, the opening of the charging doors, the time during which cold materials are in the furnace, the duration of various processes and repairs were investigated for all three types of furnaces. It was found that the useful life of the roof in the first place depended on the kind of fuel used, on the place where fuel was fed in the furnace and on thermal loads. The shortest useful life was observed for masutfired furnaces, working under unfavorable atmospheric conditions: CO was frequently, carbohydrates were occasionally found in the roof zone. Even when Card 2/5

Optimum Working Conditions for Basic Roofs of Open-Hearth Furnaces

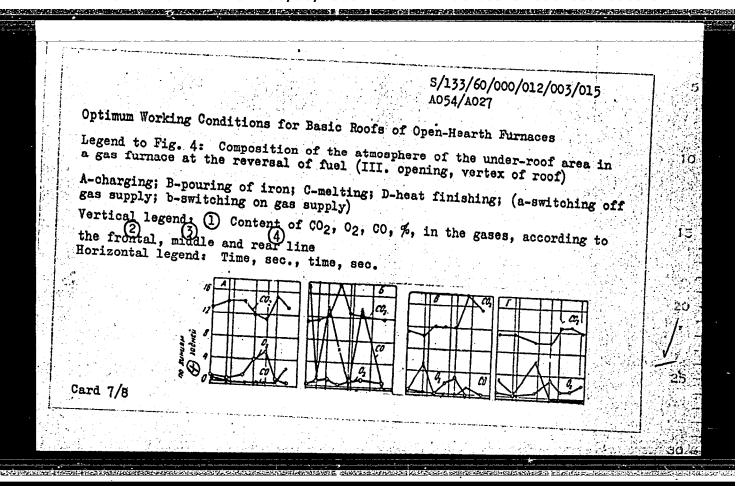
part of the gas fuel was replaced by a liquid (max. 500-700 kg/hour) the useful life of the roof was shortened, mainly when charging masut or tar through tuyères mounted at the external sides of the fuel tanks. Hydrocarbons are harmful because the ceramic surface of the bricks acts as a catalyst and promotes their decomposition during heating and thereby also the activation of oxidation-reduction processes which deteriorate the iron-rich zones of the refractory bricks. When firing with partly liquid or all-liquid fuel the temperature conditions are also adversely affected because the velocity of temperature changes on the working surface increases during reversing (up to 300°C/min), the temperature drop can attain 200°C and more in this interval; the cooling time of the roof increases during charging while the temperature can decrease to 1,300°C and lower. When cooling below 1,500-1,450°C, the refractory bricks deteriorate considerably under the effect of temperature change, because the working zones of refractory material pass from a semiplastic heat-resistant condition into a brittle, non-heat-resistant state. As, however, in some cases cooling even below 1,000°C (for instance, during repair) does not increase deterioration of the bricks, it can be assumed that actually not cooling itself, but its accompanying phenomena, such as speed Card 3/8

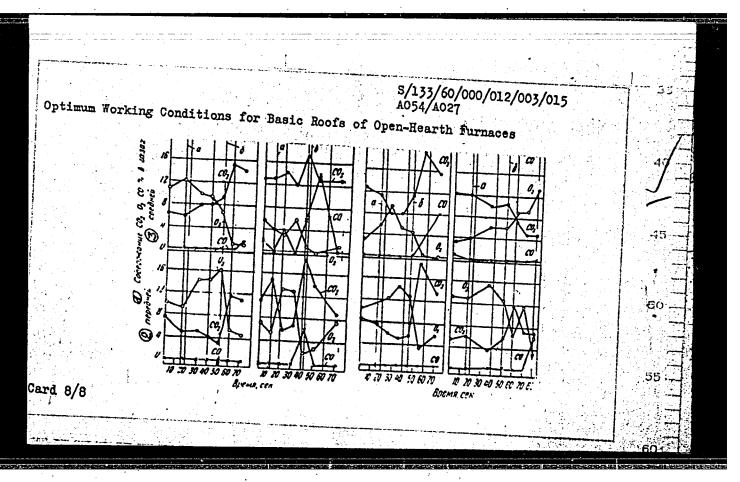
Optimum Working Conditions for Basic Roofs of Open-Hearth Furnaces

and frequency of heat changes during the non-heat-resistant period of the working zones in refractory bricks are the causes of their decomposition. The best of operation conditions of the roof is, when it is not cooled below 1,500°C. However, with the present methods of charging high-capacity furnaces this can be obtained only by extending the charging time or by intensifying the combustion of fuel. When having to cool the roof under 1,450-1,500°C during charging, the number of reversals should preferably be reduced by intensifying combustion as much as possible, and by increasing the intervals between reversings. As the changes in the composition of atmosphere under the roof, recurring for 7-9 minutes, also add to the decomposition of the refractory bricks, care should be taken to prevent any reducing medium from entering this area, not even for a short time. Refractory bricks deteriorate more quickly in the first phase of the furnace campaign than in the subsequent phase. This shows that decomposition takes place quickly when there are refractory bricks with a high content of iron oxides in the working area. There are 6 figures, 8 tables and 3 Soviet references. ASSOCIATION: Vostochnyy institut ogneuporov (Eastern Institute of Refractory Material), Magnitogorskiy metallurgicheskiy kombinat (Magnitogorsk Metallurgical Card 4/8 Combine)



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	Peri	od of heat	finishing	(gas furna	ce)		
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	10	8,0	1,7; 3,1	0,0	0,0		55
	15 -10* * 10 sec before	176	0,4; 0,2 6,8; 7,5	0,0 0	0,0		
Card 6/8		OUT ACTUTING	orr core-8	aa anbbra	•		





RASIYAS, I.P.; LEPESA, A.M.

Mineralogical composition of magnesite-dolomite-cinder and magnesite-dolomite-furnace slag calcinated mixes. Ogneupory 25 no.10:478-483 (MIRA 13:10)

1. Vostochnyy institut ogneuporov.
(Refractory materials)

BAS'YAS, Igor' Pavlovich; CHERNOGOLOV, Aleksey Ivanovich; MAMYKIN, P.S., prof., retsenzent; LEVCHENKO, P.V., red.; SKOROBOGACHEVA, A.P., red. izd-va; CHAPAYKINA, F.K., red. izd-va; TURKINA, Ye.D., tekhn, red.

[Open-hearth furnace regenerators] Regeneratory martenovskikh peckei. Sverdlovsk, Gos. nauchno-tekhm. ind-vo lit-ry po chernoi i tsvetnoi metallurgii Sverdlovskoe otd-nie, 1961. 174 p. (MIRA 14:7) (Open-hearth furnaces—Equipment and supplies) (Heat regenerators)

ZBORCVSKIY, A.A.; ROGOVOY, A.G.; BASIYAS, I.P.

Exchange of oxides of iron and calcium in magnesite-chrome articles when heated. Ogneupory 26 no.9:414-417 '61. (MIRA 14:9)

1. Magnitogorskiy metallurgicheskiy kombinat (for Zborovskiy, Rogovoy). 2. Vostochnyy institut ogneuporov (for Bas'yas).

(Refractory materials)

S/032/61/027/002/019/026 B134/B206

AUTHORS:

Bas'yas, I. P., Paramonova, A. P.

TIPLE:

Furnace for the observation of melting of microopjects under a microscope

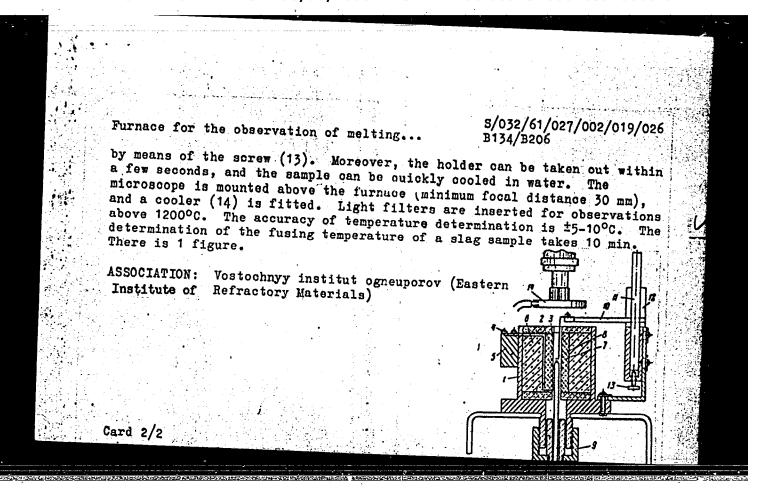
PERIODICAL:

Zavodskaya laboratoriya, v. 27, nd. 2, 1961, 213-214

TEXT: A vertical tubular furnace for the microscopic study of melting processes at 50-fold magnification is described. A corundum tube (2) with platinum heating element (3) is placed at the center of a steel jacket (1) (Fig.). A temperature of up to 1600°C can be obtained, and of up to 1700°C if a platinum-rhodium heating element is used. The contacts of the heating element are led to the terminals (4) which are placed on an asbestos block (5). The furnace is heat-insulated (6) and fed by an JIATP-1 (LATR-1) transformer. The contact of the thermocouple (7) is placed immediately below the sample holder (8) which is made of platinum-rhodium wire and is suspended from a support (11) by means of an arm (10). The slot (12) permits vertical displacement of the support (11)

Card 1/2

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203920005-0



STRELOV, K.K.; MAMYKIN, P.S.; Prinimali uchastiye: BAS'YAS. I.P.;
BICHURIMA, A.A.; ERON, V.A.; VECHER, N.A.; VOROB'IEVA, K.V.;
D'YACHKOVA, Z.S.; D'YACHKOV, P.N.; DVORKIND, M.M.;
IGNATOVA, T.S.; KAYBICHEVA, M.N.; KELAREV, N.V.;
KOSOLAPOV, Ye.F.; MAR'YEVICH, N.I.; MIKHAYLOV, Yu.P.;
SEMKINA, N.V.; STARTSEV, D.A.; SYREYSHCHIKOV, Yu.Ye.;
TARNOVSKIY, G.I.; FLYAGIN, V.G.; FREYDENBERG, A.S.;
KHOROSHAVIN, L.B.; CHUBUKOV, M.F.; SHVARTSMAN, I.Sh.;
SHCHETNIKOVA, I.L.

Institutes and enterprises. Ogneupory 27 no.11:499-501
'62.

(MIRA 15:11)

1. Vostochnyy institut ogneu orov (for Strelov). 2. Ural'skiy politekhnicheskiy institut im. S.M. Kirova (for Mamykin).

(Refractory materials—Research)

Repairing hearth bottoms in open-hearth furnaces. Trudy Vost, inst. ogmeup. no.2:59-62 '60. (MIRA 16:1)

(Open-hearth furnaces—Maintenance and repair)

(Refractory materials)

CHERNOGOLOV, A. I.; BAS'YAS, I. P.

Dust characteristics from smelting in a large capacity openhearth furnace. Trudy Vost. inst. ogneup. no.2:118-126 (60. (MIRA 16:1)

(Open-hearth furnaces) (Fly ash)

VECHER, Nikolay Aleksandrovich; IVANOV, N.I., retsenzent; KULAKOV, A.M., retsenzent; LEPINSKIKH, B.M., red.; BAS'YAS, I.P., red.; MIKHAYLIKOV, S.V., red.; TEIEGIN, A.S., Ted.; BUR'KOV, M.M., red.izd-va; ISIENT'YEVA, P.G., tekhn. red.

[Highly efficient open-hearth furnace performance] Vysokoproisvoditel'naia rabota martenovskikh pechei. Moskva, Metallurgizdat 1963. 270 p. (MIRA 16:8) (Open-hearth furnaces)

BAS'YAS, I.P.; KCKSHAROV, V.D.; VYAZNIKOVA, T.A.

Rapidity of deposition zone formation in magnesite-chromite crowns of open-hearth furnaces. Ogneupory 26 no.11:519-524 '61.

1. Vostochnyy institut ogneuporov.

(MIRA 17:2)

BAS'YAS, I.P.; VYAZNIKOVA, T.A.; KOKSHAROV, V.D.

Service of magnesite-chromite refractories in an open-hearth furnace roof. Ogneupory 29 no.3:132-136 64 (MIRA 17:3)

1. Vostochnyy institut ogneuporow.

BAS'YAS, I.P.; BELOZEROV, M.M.

Causes of the formation of metal incrustations on magnesite steel pouring nossles and ways to prevent it. Stal' 23 no. 3: 222-224 Mr '64. (MIRA 17:5)

1. Vostochnyy institut ogneuporov.

BELOZEROV, M.M.; BASIYAS, I.P.

Preventing the formation of crusts during the top pouring of steel. Metallurg. 9 no.10:23-24 0 '64 (MTRA 18:1)

1. Vostochnyy institut ogneuporov.

SEMENENKO, P.P.; BARYSHNIKOV, G.I.; FILATOV, V.P.; BAS'YAS, I.P.; FREYDENBERG,
A.S.; GUDOW, V.I.; TARNOVSKIY, G.A.

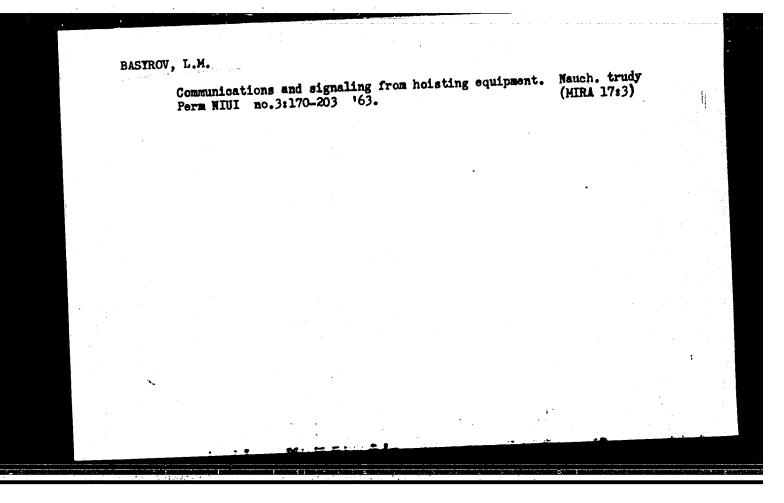
Ramming the upper working layer of open-hearth furnace hearths. Metallurg
(MIRA 18:7)

10 no.4:14 Ap '65.

BASYKIN, Viktor Vasil'yevich; LUTSKIY, Valeriy Konstantikovich; KREKSHINA, L., FOURKIOF; IAKUVIEVA, Ye., tekhnicheskiy redaktor

[The Moscow planetarium] Moskovskii planetarii. Izd. 2-oe, dop.
[Moskva] Moskovskii rabochii, 1956. 238 p. (MIRA 9:8)
(Moscow--Planetaria)

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203920005-0



8/152/61/000/003/001/003 B129/B201

AUTHORS:

Basyrova, Z. B., Klimenok, B. V.

TITLE:

Structure of the complex forming on the interaction of Diesel fuel with an aqueous carbamide solution

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Neft' i gaz, no. 3

Carbamide forms crystal complexes with unramified aliphatic compounds. This property of carbamide is of use for the separation of various mixtures of unramified aliphatic compounds from ramified aliphatic and cyclic ones. Great importance is attached to the utilization of carbamide complexes for the extraction of normal paraffins for the purpose of reducing the solidification temperature of petroleum products (Diesel- and jet fuels, oils), and utilization of extracted paraffins for the production of acids, alcohols, and other valuable products. Some variants have now been worked out for the process of deparaffination of Diesel fuel and oils by means of carbamide. Polar organic substances (alcohols, ketones) are used in most procedures as carbamide solvents and as catalysts. Deparaffination by means

Structure of ...

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of carbamide is usually performed by mixing the deparaffinizing fraction with a carbamide solution. A product is formed as the result of their mutual effect, called crude complex. This is a complex microheterogeneous system, consisting of liquid (deparaffined product and carbamide solution) and solid (complex and carbamide) phases. The structure of the crude complex is dependent upon the nature of the solvent, the ratio of carbamide solution to petroleum product solution, upon temperature, and other conditions. The structure of the complex formed by the mutual effect of Diesel fuel and an aqueous carbamide solution is also discussed. Two structures are considered: a plastic one, with a considerable water content in the crude complex, and a granular one, with a slight water content. The complex of the plastic structure may have different degrees of consistency thick, pasty to mobile creamy. The complex of the granular structure consists of individual spherical particles embedded in the deparaffined petroleum product. Their sizes range from millimeter fractions to those of some mm, depending on conditions. The microscopic analysis of the plastic crude complex proved it to be an emulsion of the deparaffined product in the aqueous carbamide solution, which is stabilized by the microcrystals of the complex. The separation of the deparaffined product from the crude complex

Structure of ...

8/152/61/000/003/001/003 B129/B201

of such a structure is possible only by filtration at high pressure. Other current methods of solid phase separation (decanting, centrifuging, extraction by solvent) with the given complex structure yield no satisfactory results. The granular crude complex is an emulsion - suspension of the aqueous carbamide solution and of the complex in the deparaffined product. The authors studied the conditions and causes of formation of the complexes of both structures at room temperature by intensive mixing of Diesel fuel with aqueous carbamide. The granular structure was obtained with a water content up to 18.2% in the crude complex. The deparaffined product is the dispersion medium. The plastic complex is obtained at a water content of the mixture amounting to over 20%. In the intermediate range of 18.2% to 20% of water, where both types of emulsion exist, the emulsion of water in oil prevails. For clarifying the granular and the plastic structure of the crude complex, the authors made a microscopic analysis of the wettability of the crystals of the complex (uroparaffins) by an aqueous carbamide solution and deparaffined product. In the plastic complex the deparaffined product is a disperse liquid phase. In the granular complex an aqueous carbamide solution is in dispersion, and the deparaffined product is the dispersion medium. There are 12 references: 8 Soviet-bloc.

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203920005-0

Structure of ...

S/152/61/000/003/001/003 B129/B201

ASSOCIATION: Ufimskiy neftyanoy institut (Ufa Petroleum Institute)

SUBMITTED:

December 3, 1960

Card 4/4

5(3) 11(1) 14(1)

AUTHORS . Gittsevich, G. A., Engineer, Basyrov, Z. B., Engineer, 507/67-59-3-3/27

Sagaydak, V. G., Engineer

TITLE:

New Data on the Explodibility of Hydrocarbon Mixtures in Liquid Oxygen (Novyye dannyye o vzryvayemosti smesey ugle-

vodorodov v zhidkom kislorode)

PERIODICAL:

Kislorod, 1959, Nr 3, pp 12 - 16 (USSR)

ABSTRACT:

In this paper artificially obtained light hydrocarbons which form in the action of high pressure in the last stages of the compressors from lubricants are investigated with respect to their explodibility in liquid oxygen. For this purpose cylinder oil of the type P-28 was subjected to thermal cracking at 180 atmospheres excess pressure and at 200-3500 in an autoclave (Fig 1). The apparatus is described. The following resulted from the cracking process: gaseous hydrocarbons, carbon dioxide, liquid hydrocarbons and a mass with signs of coking as solid residue. The formation of liquid, easily volatile cracking products which have a characteristic smell was observed at 145° and at a pressure of 185 ata which is in agreement with practical experience. The explosion tests

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were carried out with liquid hydrocarbons with a boiling point at 60-100°. Engineer T. K. Zhmakov assisted in these

New Data on the Explodibility of Hydrocarbon Mixtures SOV/67-59-3-3/27 in Liquid Oxygen

tests. The explodibility of the hydrocarbons in liquid oxygen was determined by its sensitivity to pressure impulses. The character of an explosion occurring at a correspondingly high pressure impulse was determined from the destruction of the vessel. In table 2 the impulses necessary for an explosion of the individual mixtures investigated are listed. For comparison purposes parallel investigations were carried out with nitroglycerin. These experiments were conducted by N. D. Maurina. All hydrocarbon mixtures investigated showed a higher sensitivity to pressure impulses than nitroglycerin. An accumulation of hydrocarbons in liquid oxygen beyond the explosion limit is therefore most dangerous. No acetylen was found in the cracking product (Table 1). There are 2 figures, 2 tables, and 6 references, 5 of which are Soviet.

Card 2/2

14(1)

AUTHORS:

Basyrov, Z. B., Engineer, Mikhedov, V. G., Engineer

TITLE:

The Capability of Detonating a Mixture of Acetylene and Lubricating Oil With Liquid Oxygen

PERIODICAL: Kislored, 1959, Nr 5, pp 1 - 6 (USSR)

ABSTRACT:

Since atmospheric pollutions in air-separation plants cause explosions by acetylene and lubricants again and again the above mixtures were investigated. F. Pollitzer (Ref 1), S. N. Nikitin (Ref 2), and G. A. Gitsevich (Ref 3) had assumed that the lubricant and its "distillates" accumulate in the apparatus which cause an explosion in liquid oxygen medium. The liquid and light gaseous hydrocarbons form with the liquid oxygen the explosive oxyliquites. This theory, however, could not be verified. On the contrary, it was found that both the solid acetylene and lubricating oil in particular the former, proved to be highly explosive substances. For this purpose, the critical parameter of a steady detonation mixture of the components mentioned was determined (at different concentration). Further, it was found that mixtures of lubricants and stale oils with oxygen can hardly be di-

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The Capability of Detonating a Mixture of Acetylene and Lubricating Oil With Liquid Oxygen

SOV/67-59-5-1/30

stinguished in their detonation effect. The accumulation of pollutions consisting of lubricating oils, especially in the form of fat droplets, in the separation plants proved to be dangerous on the basis of the investigations carried out. Data are given in tables and figures, the testing apparatus is shown in figure 1. T. K. Zhmakov, Engineer, and N. A. Kotikova, Laboratory Worker, participated in the tests. There are 2 figures, 2 tables, and 12 references, 7 of which are Soviet.

Card 2/2

5.1330

67780

14(1) AUTHOR:

Basyrov, Z. B., Engineer

SOV/67-59-6-2/26

TITLE:

Sensitivity of a Mixture of Organic Substances and Liquid

Oxygen to Pressure Impulses

PERIODICAL:

Kislorod, 1959, Mr 6, pp 13 - 23 (USSR)

ABSTRACT:

Following a series of investigations in a previous issue of the periodical, the present paper mainly deals with the problem of excitation conditions for an explosion in mixtures forming in apparatus during operation. T. K. Zhmakov, Engineer, and N. A. Kotikova, Laboratory Assistant, participated in the experiments. The impulse for excitation of an explosion may be caused by a hydraulic impact, the impact of a gas wave, or a cavitation phenomenon. Investigations of these phenomena were made by the author in collaboration with A. V. Pankratov, Candidate of Technical Sciences, and a certain investigation method was worked out. Investigations were carried out on a plant (Fig 1) where a copper reservoir and a shock tube were used (dimensions are given). The general apparatus and its mode of operation are described. Mixtures of pure hydrocarbons/were investigated with special observation of the

Card 1/8

67780

Sensitivity of a Mixture of Organic Substances and Liquid Oxygen to Pressure Impulses 507/67-59-6-2/26

influence exerted by the thickness of layer of the solid hydrocarbon and the influence of inert additions. The investigations yielded the following results: All mixtures investigated such as form during operation in plants possess a much higher sensitivity to explosion than nitroglycerin. Mixtures of carbon dioxide and acetylene, or cracking products with liquid oxygen, are equally explosive. Investigations of pure hydrocarbons with pure oxygen showed that the explosion takes place already at slight excess of the permissible concentration limit at a strongly reduced impulse. Explosion of mixtures by pressure impulses is excited by the adiabatic compression of gaseous inclusions (Bouden and Loffe, Ref 10). This conclusion is drawn from the parallelism between sensitivity and spontaneous combustibility temperature in the gaseous phase. Accumulations of less soluble organic substances proved to be most dangerous for air-fractionating plants since in small ranges they very rapidly exceed the permissible concentration limit. Further it was proven by experiments that acetylene is not the most explosive substance but that all organic substances have the same explosion danger as soon as they accrue in

Card 2/3

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S/064/62/000/003/003/007 B110/B138

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Basyrov, Z. B., Pankratov, A. V.

TITLE:

The sensitivity of ozone-oxygen solutions to pressure pulses

PERIODICAL: Khimicheskaya promyshlennost', no. 3, 1962, 22-23

TEXT: An explosion vessel was used with one tube 400 mm, and a shock tube 1,080 mm, in length (both 20 mm diam), which was divided into two unequal parts by a diaphragm. The vessel was placed in a thermostat with liquid oxygen, to keep the ozone-oxygen concentration constant. Liquid oxygen was introduced. A gaseous ozone-oxygen mixture (2-4% ozone) was produced in an ozonizer and liquefied in a coil in the thermostat. Higher ozone concentrations (76% by volume) were obtained by evaporating liquid oxygen. The diaphræm breaks when a pressure of P is reached in the shock tube. The pressure P arising when the shock wave is reflected on the bottom of the vessel after rupture of the diaphragm was checked with a lead crusher gage in liquid oxygen and an MNA -3 (MID-3) diaphragm-type

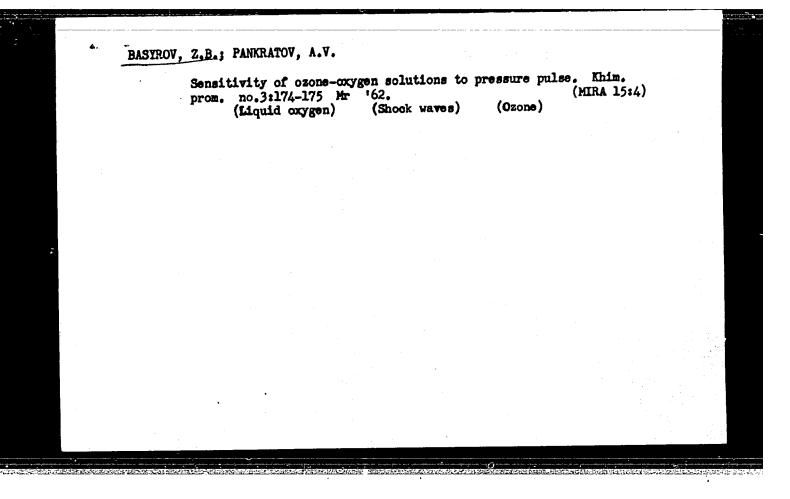
Card 1/2

The sensitivity of ozone -...

S/064/62/000/003/003/007 B110/B138

water. Prof values were almost identical in liquid oxygen and ref = 2.9Pr. The explosive effect increases with ozone concentration, the tube being completely shattered at 6% or over. From this a graph was plotted showing the sensitivity of ozone-oxygen solutions to ref as a function of ozone concentration. With 20% by weight ozone explosion took place at 1,422 psi, with 80% at 142 psi. Ozone-oxygen solutions are very sensitive to pulsating pressure. Oxygen dilution causes an abrupt drop in the pulsating pressure required to trigger the explosion. Pref = 173 exp (-0.0382C). As with liquid oxygen hydrocarbon mum temperature of spontaneous ignition. There are 3 figures. The most Phys. Chem., 63, no. 7, 1054 (1959).

Card 2/2



BASYROVA, Z.V.; KLIMENOK, B.V.

Structure of a complex formed by the interaction of diesel fuel and carbamide aqueous solution. Izv. vys. ucheb. zav.; neft' 1 gaz 4 no.3:61-66 '61. (MIRA 16:10)

1. Ufimskiy neftyanoy institut.

```
AUTHORS:

Dewaxing of diesel fuel with an aqueous solution of carbamide in a pilot. Riming, no.11, 1962.

TITLE:

Carbamide in a pilot. Riming, no.11, 1962.

PERIODICAL:

Referativny M 176. (Novosti net, no.5, 1961.)

Noftepererabotks in eftekhimity, no.5, 1961.

Nettekhimity, no.5, 1961.

Dewaxing process for diesel (pulp), and was developed ted in abstract 11 M 176. (Novosti net, no.5, 1961.)

Dewaxing process for water (pulp), and was many no.6 of a through of diesel (pulp), and was not not a priod of a through of diesel oil from cyclotal a pilot plant having a samples of in 12 litres/raction adwaring.

TEXT:

a cold suspension for a through of diesel oil from cyclotal a pilot plant having a sample solit of 12 litres/raction adwaring.

a pilot plant having a samples oil of 1948 we react or vector of the pulp was carried out oil difficult on the pulp in the react or vector of the crude with the pulp was ohnering process of the pulp was on the pulp was offected with the pulp was on the many of the specific consumption of feedstock, and temperature ween 30 repetition one volumes for one volumes of the reactor was changing the specific complex at the exit from the reactor was changing the specific complex at the exit from the that with an increase in the sestablished that with an increase in the card 1/2
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